



Thinking about mathematics

The philosophy of mathematics

Stewart Shapiro

Thinking About Mathematics The Philosophy Of Mathematics

Kurt Stemhagen, Catherine Henney



Thinking About Mathematics The Philosophy Of Mathematics:

Thinking about Mathematics Stewart Shapiro, 2000-07-13 Thinking about Mathematics covers the range of philosophical issues and positions concerning mathematics The text describes the questions about mathematics that motivated philosophers throughout history and covers historical figures such as Plato Aristotle Kant and Mill It also presents the major positions and arguments concerning mathematics throughout the twentieth century bringing the reader up to the present positions and battle lines

Philosophy of Mathematics Thomas Bedürftig, Roman Murawski, 2018-10-26 The present book is an introduction to the philosophy of mathematics It asks philosophical questions concerning fundamental concepts constructions and methods this is done from the standpoint of mathematical research and teaching It looks for answers both in mathematics and in the philosophy of mathematics from their beginnings till today The reference point of the considerations is the introducing of the reals in the 19th century that marked an epochal turn in the foundations of mathematics In the book problems connected with the concept of a number with the infinity the continuum and the infinitely small with the applicability of mathematics as well as with sets logic provability and truth and with the axiomatic approach to mathematics are considered In Chapter 6 the meaning of infinitesimals to mathematics and to the elements of analysis is presented The authors of the present book are mathematicians Their aim is to introduce mathematicians and teachers of mathematics as well as students into the philosophy of mathematics The book is suitable also for professional philosophers as well as for students of philosophy just because it approaches philosophy from the side of mathematics The knowledge of mathematics needed to understand the text is elementary Reports on historical conceptions Thinking about today's mathematical doing and thinking Recent developments Based on the third revised German edition For mathematicians students teachers researchers and lecturers and readers interested in mathematics and philosophy Contents On the way to the reals On the history of the philosophy of mathematics On fundamental questions of the philosophy of mathematics Sets and set theories Axiomatic approach and logic Thinking and calculating infinitesimally First nonstandard steps Retrospection

Philosophy of Mathematics Stewart Shapiro, 1997-08-07 Do numbers sets and so forth exist What do mathematical statements mean Are they literally true or false or do they lack truth values altogether Addressing questions that have attracted lively debate in recent years Stewart Shapiro contends that standard realist and antirealist accounts of mathematics are both problematic As Benacerraf first noted we are confronted with the following powerful dilemma The desired continuity between mathematical and say scientific language suggests realism but realism in this context suggests seemingly intractable epistemic problems As a way out of this dilemma Shapiro articulates a structuralist approach On this view the subject matter of arithmetic for example is not a fixed domain of numbers independent of each other but rather is the natural number structure the pattern common to any system of objects that has an initial object and successor relation satisfying the induction principle Using this framework realism in mathematics can be preserved without troublesome

epistemic consequences Shapiro concludes by showing how a structuralist approach can be applied to wider philosophical questions such as the nature of an object and the Quinean nature of ontological commitment Clear compelling and tautly argued Shapiro's work noteworthy both in its attempt to develop a full length structuralist approach to mathematics and to trace its emergence in the history of mathematics will be of deep interest to both philosophers and mathematicians

Varieties of Logic Stewart Shapiro, 2014-09-04 Logical pluralism is the view that different logics are equally appropriate or equally correct Logical relativism is a pluralism according to which validity and logical consequence are relative to something In Varieties of Logic Stewart Shapiro develops several ways in which one can be a pluralist or relativist about logic One of these is an extended argument that words and phrases like valid and logical consequence are polysemous or perhaps better are cluster concepts The notions can be sharpened in various ways This explains away the debates in the literature between inferentialists and advocates of a truth conditional model theoretic approach and between those who advocate higher order logic and those who insist that logic is first order A significant kind of pluralism flows from an orientation toward mathematics that emerged toward the end of the nineteenth century and continues to dominate the field today The theme is that consistency is the only legitimate criterion for a theory Logical pluralism arises when one considers a number of interesting and important mathematical theories that invoke a non classical logic and are rendered inconsistent and trivial if classical logic is imposed So validity is relative to a theory or structure The perspective raises a host of important questions about meaning The most significant of these concern the semantic content of logical terminology words like or not and for all as they occur in rigorous mathematical deduction Does the intuitionistic not for example have the same meaning as its classical counterpart Shapiro examines the major arguments on the issue on both sides and finds them all wanting He then articulates and defends a thesis that the question of meaning shift is itself context sensitive and indeed interest relative He relates the issue to some prominent considerations concerning open texture vagueness and verbal disputes Logic is ubiquitous Whenever there is deductive reasoning there is logic So there are questions about logical pluralism that are analogous to standard questions about global relativism The most pressing of these concerns foundational studies wherein one compares theories sometimes with different logics and where one figures out what follows from what in a given logic Shapiro shows that the issues are not problematic and that is usually easy to keep track of the logic being used and the one mentioned

The Waltz of Reason Karl Sigmund, 2023-12-19 A mind bending jaunt that makes clear in fascinating detail how math is more than a sum of its parts Publishers Weekly Let no one ignorant of geometry enter here Plato warned would be philosophers Mathematician Karl Sigmund agrees In The Waltz of Reason he shows how mathematics and philosophy together have shaped our understanding of space chance logic cooperation voting and the social contract Sigmund shows how game theory is integral to moral philosophy how statistics shaped the meaning of reason and how the search for a logical basis for math leads to deep questions about the nature of truth itself But this is no dry tome Sigmund's

wit and humor shine as brightly as his erudition *The Waltz of Reason* is an engrossing history of ideas as vibrant as a ballroom full of dancers one that empowers as it entertains following the complex and occasionally dizzying steps of the thinkers who have molded our thought and founded our world *Philosophy of Mathematics* Ahmet Cevik,2021-11-09 The philosophy of mathematics is an exciting subject *Philosophy of Mathematics Classic and Contemporary Studies* explores the foundations of mathematical thought The aim of this book is to encourage young mathematicians to think about the philosophical issues behind fundamental concepts and about different views on mathematical objects and mathematical knowledge With this new approach the author rekindles an interest in philosophical subjects surrounding the foundations of mathematics He offers the mathematical motivations behind the topics under debate He introduces various philosophical positions ranging from the classic views to more contemporary ones including subjects which are more engaged with mathematical logic Most books on philosophy of mathematics have little to no focus on the effects of philosophical views on mathematical practice and no concern on giving crucial mathematical results and their philosophical relevance consequences reasons etc This book fills this gap The book can be used as a textbook for a one semester or even one year course on philosophy of mathematics Other textbooks on the philosophy of mathematics are aimed at philosophers This book is aimed at mathematicians Since the author is a mathematician it is a valuable addition to the literature Mark Balaguer California State University Los Angeles There are not many such texts available for mathematics students I applaud efforts to foster the dialogue between mathematics and philosophy Michele Friend George Washington University and CNRS Lille France

Towards a Philosophy of Real Mathematics David Corfield,2003-04-24 In this ambitious study David Corfield attacks the widely held view that it is the nature of mathematical knowledge which has shaped the way in which mathematics is treated philosophically and claims that contingent factors have brought us to the present thematically limited discipline Illustrating his discussion with a wealth of examples he sets out a variety of approaches to new thinking about the philosophy of mathematics ranging from an exploration of whether computers producing mathematical proofs or conjectures are doing real mathematics to the use of analogy the prospects for a Bayesian confirmation theory the notion of a mathematical research programme and the ways in which new concepts are justified His inspiring book challenges both philosophers and mathematicians to develop the broadest and richest philosophical resources for work in their disciplines and points clearly to the ways in which this can be done **Visual Thinking in Mathematics** Marcus Giaquinto,2007-07-05 Drawing from philosophical work on the nature of concepts and from empirical studies of visual perception mental imagery and numerical cognition Giaquinto explores a major source of our grasp of mathematics using examples from basic geometry arithmetic algebra and real analysis *Contemporary Mathematical Thinking* Frédéric Patras,2023-04-13 This book deals with the evolution of mathematical thought during the 20th century Representing a unique point of view combining mathematics philosophy and history on this issue it presents an original analysis of key authors for example Bourbaki Grothendieck and

Husserl As a product of 19th and early 20th century science a canon of knowledge or a scientific ideology mathematical structuralism had to give way The succession is difficult still in progress and uncertain To understand contemporary mathematics its progressive liberation from the slogans of modern mathematics and the paths that remain open today it is first necessary to deconstruct the history of this long dominant current Another conception of mathematical thought emerged in the work of mathematicians such as Hilbert or Weyl which went beyond the narrow epistemological paths of science in the making In this tradition mathematical thought was accompanied by a philosophical requirement Modernity teaches us to revive it The book is intended for a varied public mathematicians concerned with understanding their discipline philosophers of science and the erudite public curious about the progress of mathematics [Axiomatic Thinking I](#) Fernando Ferreira, Reinhard Kahle, Giovanni Sommaruga, 2022-10-13 In this two volume compilation of articles leading researchers reevaluate the success of Hilbert's axiomatic method which not only laid the foundations for our understanding of modern mathematics but also found applications in physics computer science and elsewhere The title takes its name from David Hilbert's seminal talk *Axiomatisches Denken* given at a meeting of the Swiss Mathematical Society in Zurich in 1917 This marked the beginning of Hilbert's return to his foundational studies which ultimately resulted in the establishment of proof theory as a new branch in the emerging field of mathematical logic Hilbert also used the opportunity to bring Paul Bernays back to Göttingen as his main collaborator in foundational studies in the years to come The contributions are addressed to mathematical and philosophical logicians but also to philosophers of science as well as physicists and computer scientists with an interest in foundations Chapter 8 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com *Thinking of Questions* Peter Limm, 2015-09-23 This is not a conventional book It is designed to stimulate and challenge all people who are curious to find out about the world they inhabit and their place within it It does this by suggesting questions and lines of questioning on a wide range of topics The book does not provide answers or model arguments but prompts people to create their own questions and a reading log or journal To this end almost all questions have a list of books or articles to provide a starter for stimulating further reading Once you start you will be hooked Never stop questioning **Why Is There Philosophy of Mathematics At All?** Ian Hacking, 2014-01-30 This truly philosophical book takes us back to fundamentals the sheer experience of proof and the enigmatic relation of mathematics to nature It asks unexpected questions such as what makes mathematics mathematics where did proof come from and how did it evolve and how did the distinction between pure and applied mathematics come into being In a wide ranging discussion that is both immersed in the past and unusually attuned to the competing philosophical ideas of contemporary mathematicians it shows that proof and other forms of mathematical exploration continue to be living evolving practices responsive to new technologies yet embedded in permanent and astonishing facts about human beings It distinguishes several distinct types of application of mathematics and shows how each leads to a different philosophical conundrum Here is a remarkable body of

new philosophical thinking about proofs applications and other mathematical activities **A Critical Introduction to Mathematics Education** Mark Wolfmeyer, 2023-03-16 The second edition of Mark Wolfmeyer's award winning primer offers future and current math teachers an introduction to the connections that exist between mathematics and a critical orientation to education one that accounts for race social class gender sexuality language diversity and ability Expanded and updated from the first edition this book demonstrates how elements of human diversity and intersectionality have real effects in the mathematics classroom and prepares teachers with a more critical math education that increases accessibility and equity for all students By refocusing math learning toward the goals of democracy and social and environmental crises the book also introduces readers to broader contemporary school policy and reform debates and struggles especially in light of Covid 19 and the ongoing struggle for racial equity Featuring concrete strategies and examples in both formal and informal educational settings as well as discussion questions for teachers and students text boxes with examples of critical education in practice a glossary and suggestions for further reading Mark Wolfmeyer shows how critical mathematics education can be put into practice relevant for undergraduate and graduate students in education current teachers and teacher educators

What is Mathematics, Really? Reuben Hersh, 1997 Tries to refine the philosophy of mathematics to reflect what mathematicians really do and argues that mathematics must be understood in a social context **Democracy and Mathematics Education** Kurt Stenhagen, Catherine Henney, 2021-05-06 In *Democracy and Mathematics Education* Kurt Stenhagen and Catherine Henney develop a way of thinking about the nature and purposes of math that is inclusive participatory and thoroughly human They use these ideas to create a school mathematics experience that can enhance students math abilities and democratic potential They locate mathematics origins in human activity and highlight the rich but often overlooked links between mathematical activity and democratic social practices Democratic mathematics education foregrounds student inquiry and brings to light the moral dimensions of a discipline that has both remarkable utility and inevitable limitations For math educators the book's humanities approach helps to see the subject anew For philosophers it provides an important real world context for wrestling with perennial and timely questions engaging democratic and evolutionary theory to transform school math This alternative approach to mathematics and mathematics education provides a guide for how to use math to make democracy a larger part of school and wider social life 2021 Winner of the AESA Critics Choice Book Award *Plato's Philosophy of Mathematics* Paul Pritchard, 2010-11-15 *Axiomatic Thinking II* Fernando Ferreira, Reinhard Kahle, Giovanni Sommaruga, 2022-09-17 In this two volume compilation of articles leading researchers reevaluate the success of Hilbert's axiomatic method which not only laid the foundations for our understanding of modern mathematics but also found applications in physics computer science and elsewhere The title takes its name from David Hilbert's seminal talk *Axiomatisches Denken* given at a meeting of the Swiss Mathematical Society in Zurich in 1917 This marked the beginning of Hilbert's return to his foundational studies which ultimately resulted in the establishment of proof

theory as a new branch in the emerging field of mathematical logic Hilbert also used the opportunity to bring Paul Bernays back to Göttingen as his main collaborator in foundational studies in the years to come The contributions are addressed to mathematical and philosophical logicians but also to philosophers of science as well as physicists and computer scientists with an interest in foundations

Mathematical Philosophy Cassius Jackson Keyser, 2001-06-01 Mathematical Philosophy A Study of Fate and Freedom Mathematics is not what many people think it is it is not a system of mere formulas and theorems Mathematics is the science of exact thought or rigorous thinking and one of its distinctive characteristics is precision sharpness completeness of definitions This quality alone is sufficient to explain why people generally do not like mathematics and why even some scientists bluntly refuse to have anything to do with problems wherein mathematical reasoning is involved In the meantime mathematical philosophy has very little if anything to do with mere calculations or with numbers as such or with formulas it is a philosophy wherein precise sharp and rigorous thinking is essential Those who deliberately refuse to think rigorously that is mathematically in connections where such thinking is possible commit the sin of preferring the worse to the better they deliberately violate the supreme law of intellectual rectitude For years Keyser meditated upon the nature of mathematics upon its significance in thought and upon its bearings on human life In the following course of lectures he endeavored to present in the language of educated men and women some of the maturer fruits of that study Though the course is designed primarily for students whose major interest is in philosophy Keyser ventured to hope that a much wider circle of readers and scholars might enjoy the lectures To all the professional mathematicians the teachers of mathematics natural science students literary critics sociologists and the rapidly increasing class of engineers who desire to come into touch with the universal spirit of the science that Plato called divine In 1922 when *Mathematical Philosophy* was originally published Dr Cassius J Keyser was Adrain Professor Mathematics at Columbia University New York

Logos and Alogon Arkady Plotnitsky, 2022-12-04 This book is a philosophical study of mathematics pursued by considering and relating two aspects of mathematical thinking and practice especially in modern mathematics which having emerged around 1800 consolidated around 1900 and extends to our own time while also tracing both aspects to earlier periods beginning with the ancient Greek mathematics The first aspect is conceptual which characterizes mathematics as the invention of and working with concepts rather than only by its logical nature The second Pythagorean aspect is grounded first in the interplay of geometry and algebra in modern mathematics and secondly in the epistemologically most radical form of modern mathematics designated in this study as radical Pythagorean mathematics This form of mathematics is defined by the role of that which beyond the limits of thought in mathematical thinking or in ancient Greek terms used in the book's title an alogon in the logos of mathematics The outcome of this investigation is a new philosophical and historical understanding of the nature of modern mathematics and mathematics in general The book is addressed to mathematicians mathematical physicists and philosophers and historians of mathematics and graduate students in these fields

Mathematical Thought E.W.

Beth, 2013-06-29 In contributing a foreword to this book I am complying with a wish my husband expressed a few days before his death. He had completed the manuscript of this work which may be considered a companion volume to his book *Formal Methods*. The task of seeing it through the press was undertaken by Mr J J A Mooij acting director of the Institute for Research in Foundations and the Philosophy of Science, Instituut voor Grondslagenonderzoek en Filosofie der Exacte Wetenschappen of the University of Amsterdam with the help of Mrs E M Barth lecturer at the Institute. I wish to thank Mr Mooij and Mrs Barth most cordially for the care with which they have acquitted themselves of this delicate task and for the speed with which they have brought it to completion. I also wish to express my gratitude to Miss L E Minning M A for the helpful advice she has so kindly given to Mr Mooij and Mrs Barth during the proof reading.

C P C BETH PASTOOR VII

PREFACE A few years ago Mr Horace S

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